Performance Data Sheet

AVB5542EXG

General Information

Model	AVB5542EXG	**Refrigerant**	R-22
Test Condition	ARI	**Performance Test Voltage**	460V 3~ 60HZ
Return Gas	18.3°C (65°F) RETURN GAS	**Motor Type**	3PH

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	90	100	110	120	130	140
-15	Btu/h	11100	10000					
	Watts	1620	1640					
	Amps	3.07	3.13					
	Lb/h	142	135					
-10	Btu/h	13600	12400	11100				
	Watts	1780	1810	1860				
	Amps	3.21	3.29	3.33				
	Lb/h	174	166	155				
-5	Btu/h	16400	15000	13500	11900			
	Watts	1930	1970	2030	2110			
	Amps	3.35	3.45	3.52	3.54			
	Lb/h	208	199	187	172			
0	Btu/h	19400	17900	16200	14400	12400		
	Watts	2060	2120	2190	2280	2370		
	Amps	3.47	3.59	3.69	3.75	3.76		
	Lb/h	245	235	222	206	186		
5	Btu/h	22700	21000	19100	17100	15000		
	Watts	2180	2250	2340	2450	2550		
	Amps	3.59	3.73	3.85	3.95	3.99		
	Lb/h	285	274	260	243	223		
10	Btu/h	26400	24400	22300	20100	17800	15300	12500
	Watts	2290	2370	2480	2600	2720	2820	2880
	Amps	3.69	3.86	4.01	4.13	4.22	4.25	4.22
	Lb/h	329	316	301	284	262	237	205
15	Btu/h	30300	28100	25800	23400	20900	18200	15300
	Watts	2370	2480	2610	2750	2890	3000	3080
	Amps	3.77	3.97	4.15	4.30	4.43	4.50	4.52
	Lb/h	376	361	345	327	305	279	247
20	Btu/h	34700	32100	29500	26900	24200	21400	18300
	Watts	2440	2570	2730	2890	3050	3180	3280
	Amps	3.85	4.07	4.28	4.46	4.62	4.74	4.80
	Lb/h	427	411	393	374	351	325	293

25	Btu/h	39300	36500	33600	30800	27800	24800	21600
	Watts	2490	2650	2830	3010	3190	3350	3470
	Amps	3.90	4.15	4.39	4.61	4.81	4.96	5.07
	Lb/h	482	464	445	424	401	374	343
30	Btu/h	44400	41200	38100	34900	31800	28500	25100
	Watts	2520	2710	2910	3130	3330	3520	3660
	Amps	3.94	4.21	4.48	4.74	4.97	5.17	5.33
	Lb/h	542	521	500	478	454	427	395
35	Btu/h	49900	46400	42900	39500	36000	32500	28900
	Watts	2530	2740	2980	3220	3460	3670	3850
	Amps	3.96	4.26	4.56	4.85	5.12	5.37	5.57
	Lb/h	605	583	560	537	512	484	452
40	Btu/h	55900	51900	48100	44400	40600	36800	32900
	Watts	2520	2760	3030	3310	3570	3820	4020
	Amps	3.95	4.28	4.61	4.94	5.26	5.54	5.79
	Lb/h	674	649	624	600	573	545	512
45	Btu/h	62300	57900	53800	49600	45600	41500	37400
	Watts	2480	2760	3060	3370	3670	3950	4190
	Amps	3.93	4.28	4.65	5.01	5.37	5.70	6.00
	Lb/h	747	720	693	667	639	610	577
50	Btu/h	69200	64400	59800	55400	50900	46500	42100
	Watts	2420	2740	3080	3420	3760	4070	4340
	Amps	3.88	4.26	4.66	5.06	5.46	5.84	6.18
	Lb/h	825	795	767	739	710	679	646
55	Btu/h	76600	71400	66400	61500	56700	52000	47300
	Watts	2330	2690	3070	3450	3830	4180	4490
	Amps	3.81	4.22	4.65	5.09	5.53	5.95	6.34
	Lb/h	909	877	846	816	785	754	719

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	3.413166E+04	4.372269E+03	2.985368E+00	3.850306E+02
C2	1.159838E+03	-2.036472E+00	1.559166E-02	1.262859E+01
C3	-2.697560E+02	-7.708878E+01	-1.296407E-02	-3.731071E+00
C4	9.359489E+00	-6.781172E-01	-3.112363E-04	8.137098E-02
C5	-8.713340E+00	3.846262E-01	-2.204505E-04	-9.079520E-02
C6	1.744711E+00	8.025285E-01	3.907824E-04	3.981910E-02
C7	2.939279E-02	-1.475568E-03	-1.879404E-06	2.919079E-04
C8	-4.541964E-02	4.811631E-03	1.150735E-06	-2.344656E-04
C9	2.695278E-02	-5.233969E-04	4.039804E-06	3.720325E-04
C10	-8.393687E-03	-2.495609E-03	-1.907118E-06	-1.879530E-04

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature